



SPYWOLF

Security Audit Report



Completed on
June 7, 2022

MADE IN USA 

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **Luna Cat** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

”

- SPYWOLF Team -





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Luna Cat



PROJECT DESCRIPTION

According to their whitepaper:

The project is developed in the direction focusing on NFTs.

Users can earn \$LUNACat tokens by staking their NFT through the dApp directly. Users can mint NFT on the Binance Smart Chain and deposit it into the staking pool. The staking APY will depend on the rarity of the NFT that user hold.

Future developments of the project:

- NFT Marketplace

Release Date: June 02, 2022

Category: NFT



CONTRACT INFO

Contract Name
LUNACAT

Symbol
LUNACAT

Contract Address

0x517e642304a78c39415f40dd3888f9fbdd9d4b41

Network

Binance Smart Chain

Language

Solidity

Deployment Date

June 07, 2022

Verified?

Yes

Total Supply

250,000,000

Status

Not launched

TAXES

Buy Tax
10%

Sell Tax
10%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of June 07, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched!

MaxTxAmount
No limit

No additional Info

LP Address(es)

Liquidity not added yet



FEATURED WALLETS

Owner address	0x3E0b3c04784A31D75106896f65587e4A09F1fCd8
Development address	0xdabcc054797e521aa345883d8ed3f47664c412e4
LP address	Liquidity not added yet

TOP 3 UNLOCKED WALLETS

1



Same as owner



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



SECURITY THREATS

High Risk

Once the contract accumulates the tokens required to initiate `swapAndLiquify()` function, trading will fail because the whole balance has already been used in `addLiquidity()` function.

```
function swapAndLiquify(uint256 liquidityTokens) private {
    liquidityTokens = liquidityTokens / 2;
    uint256 totalSwapTokens = balanceOf(address(this)) - liquidityTokens;
    if(totalSwapTokens > 0){
        swapTokensForEth(totalSwapTokens);
    }
    uint256 newBalance = address(this).balance;
    if(liquidityTokens > 0){
        addLiquidity(liquidityTokens, newBalance);
    }
    uint256 bnbToDevelopment = newBalance * developmentFee / ((liquidityFee/2) + developmentFee + rewardFees);
    payable(DevelopmentWalletAddress).transfer(bnbToDevelopment);
    .....
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

LunaCat

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner can not set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows

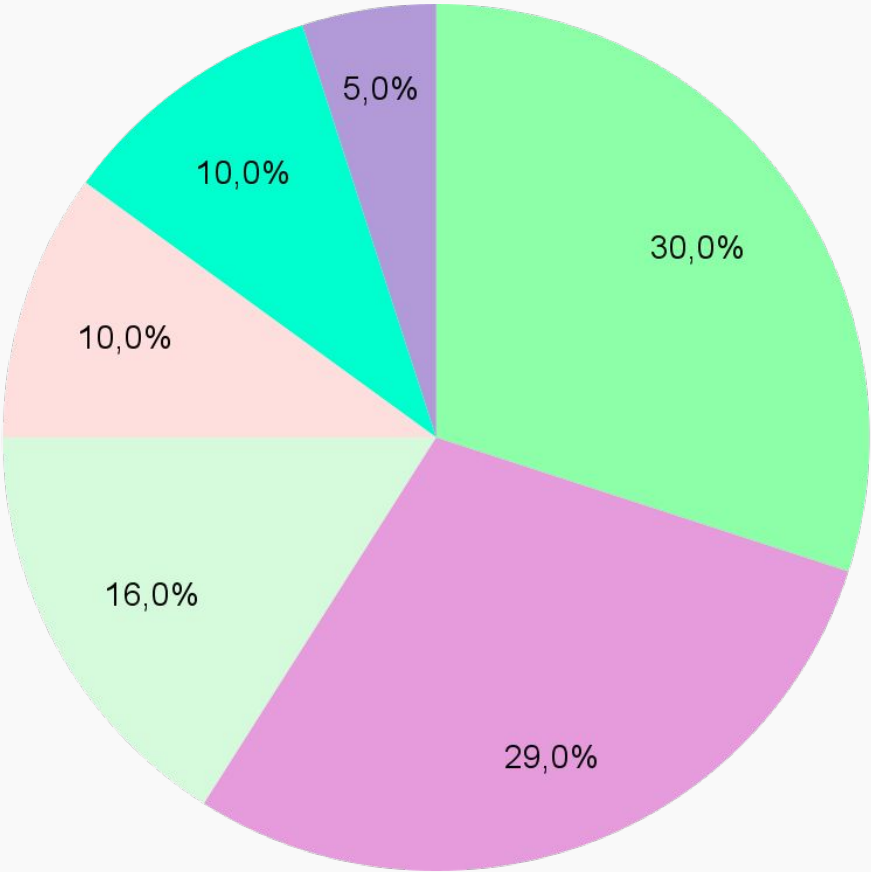


***According to their website:**

- 30% - Staking
- 29% - Presale
- 16% - Liquidity
- 10% - Burn
- 10% - Ecosystem
- 5% - Marketplace

Token Distribution

- Staking
- Presale
- Liquidity
- Burn
- Ecosystem
- Marketplace





THE TEAM

⚠ The team is
anonymous

KYC INFORMATION

⚠ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





Website URL

https://lunacat.co.uk/

Domain Registry

http://uk.godaddy.com

Domain Expiration

Expires on 2024-05-31

Technical SEO Test

Passed

Security Test

No SSL available

Design

Single page design,
appropriate color scheme.

Content

Informative, no grammar
mistakes.

Whitepaper

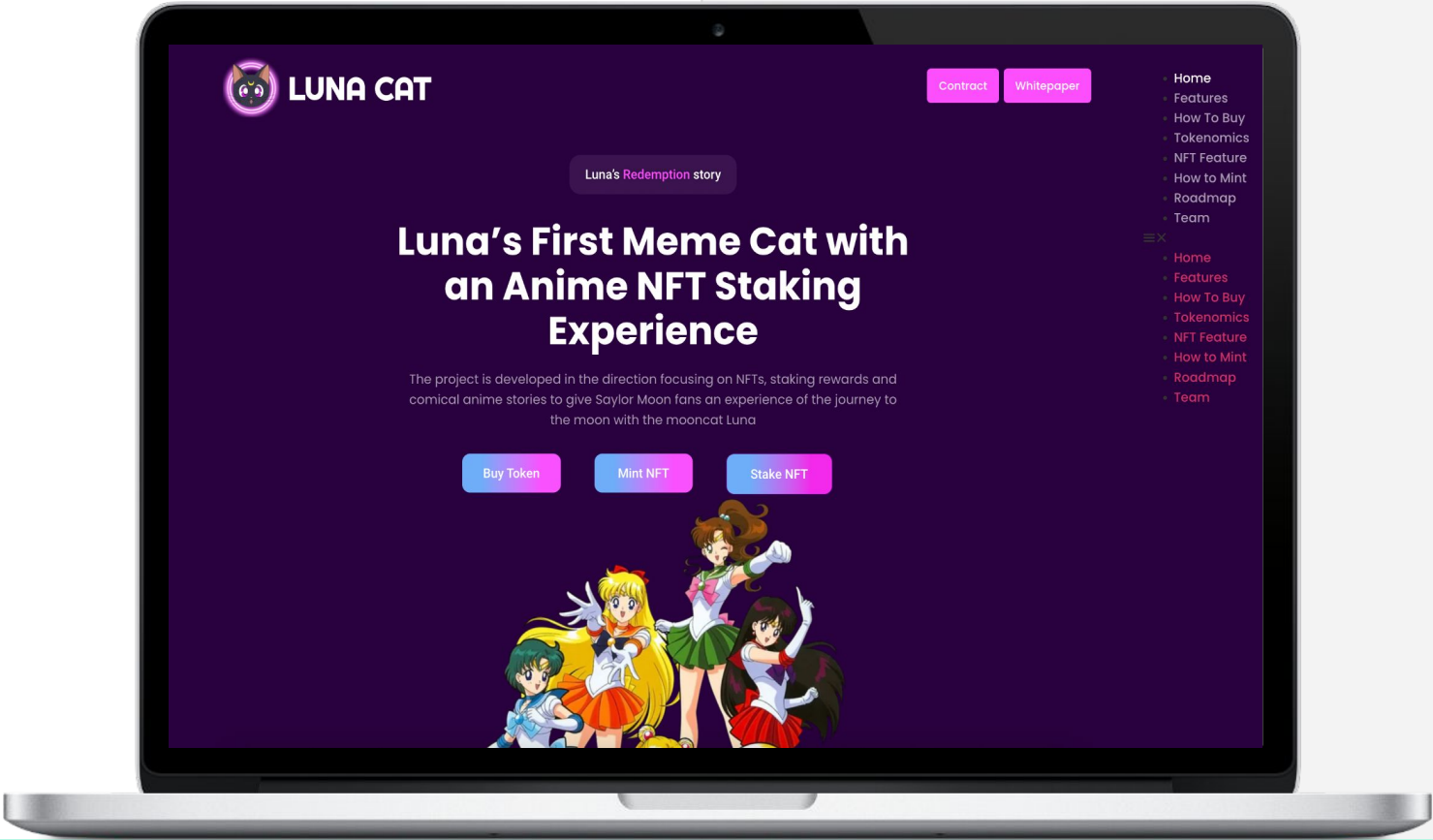
Well written, explanatory.

Roadmap

Yes, goals set at 4 phases
with time frames.

Mobile-friendly?

Yes - can be improved.



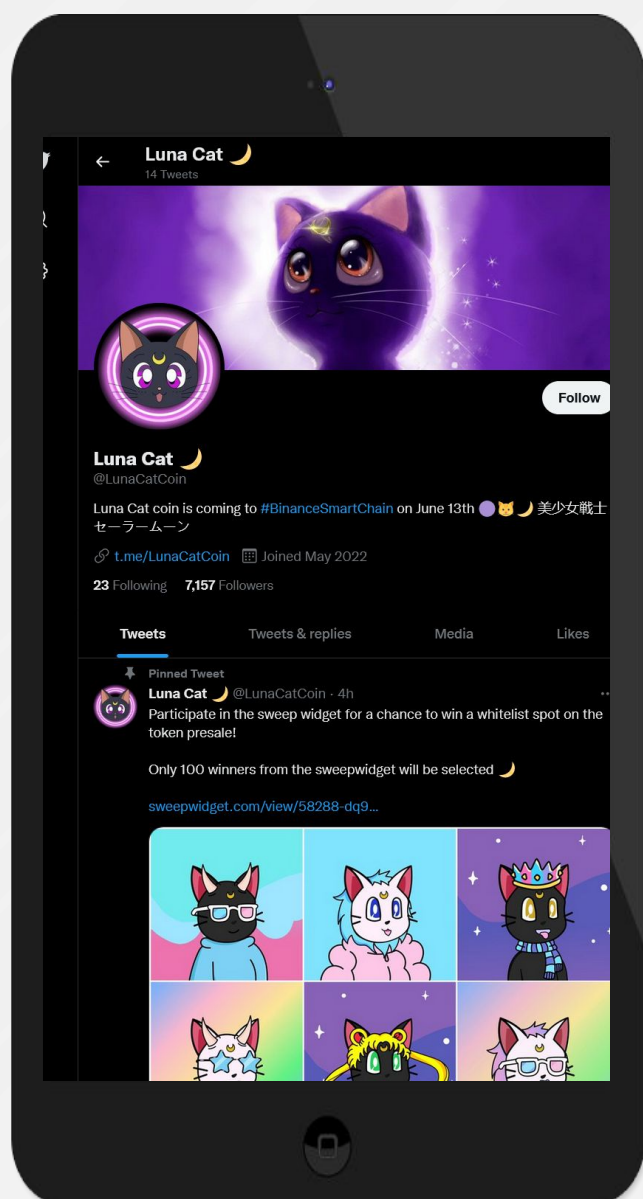


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

All social media pages are very new with only a few posts.



Twitter

<https://twitter.com/LunaCatCoin>

- 6 830 followers
- Active
- Only a few posts



Discord

<https://discord.com/invite/VajEFhktsv>

- 22 members
- Active



Telegram

<https://t.me/LunaCatCoin>

- 62 members
- Few active members
- Active mod



Medium

<https://>

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 150 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
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To hire us, reach out to
contact@spywolf.co or
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.